LMA District Cover Sheet

Spring 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0016

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating.
FALL INSPECTIONS: The overall maintena	d using the same crite ance rating shown abo	ria in the spring and in ve is based on operati	the fall.	ficiencies identified
Comments				

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	4.06

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/5/2016 - 4/8/2016			
DWR Inspector	Sterling York			
Accompanied By	Sean Freitag			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start		Rating **	Α	Issue No.		3			
LM End		Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item		s & Maintena	nce		0		0		
пеш	Manuals	Manuals			0		0		
DWR ID	DWR_MA0	016_01_s _ 201	3_3						
		Comn	nent Cod	le					
	Inspector Comment								
The O&M manuals are located at the Sutter Maintenance Yard.									

No Photos

Rating ** Issue No. LM Start Issue Type + Location * LS Ма LM End Earthen Levee GPS Latitude/Longitude Category End Flood Preparedness & Training Item DWR ID DWR_MA0016_01_s _ 2013_4 Comment Code

No Photos

Inspector Comment
Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Emergency Supplies &				0		0
item	Equipmer	nt			0		0
DWR ID	DWR_MA0	016_01_s _ 201	3_5				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			

Emergency supplies and equipment are stored at the Sutter

Maintenance Yard.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		19	
LM End	4.06	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.2557	'86	39.310941 °	
пеш				-121.6363	77°	-121.637634 °	
DWR ID	DWR_MA0	016_01_s _ 201	6_19				
		Comn	nent Cod	le			
EQ : Equip	ment						
Inspector Comment							
MA 0016 Is under construction from levee mile 0.0 to 4.0598 and has not been turned back over to the LMA.							

LM Start	0.06	Rating **	М	Issue No.		2
LM End	0.10	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetatio	n		39.2566	18°	39.257228 °
пеш				-121.6364	42 °	-121.636462 °
DWR ID	DWR_MA0	016_01_s _ 201	2_2			
		Comn	nent Coo	le		
V6 : Lands	caping					
		Inspecto	or Comm	nent		



This photo shows the landscaping on the landside slope and toe.

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	0.11	Rating **	М	Issue No.		26	
LM End	0.11	Issue Type +	En	Location *	LS		
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.25730	8 °	39.257308°	
пеш				-121.63658	2 °	-121.636582 °	
DWR ID							

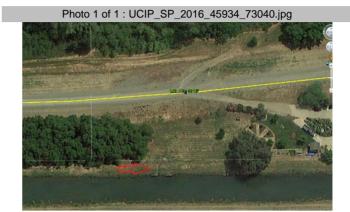
Comment Code

Inspector Comment

FS_ID:45934 DS_ID:17180 EP_NO: 4556

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 6/8/2015 Unable to locate.2/11/2015: Revised Location and added arial photo showing U-shaped concrete headwall on LS toe. Pipe should be completely removed from levee. Unable to locate any evidence of crossing 12/11/12.11/6/2013 Unable to locate.5/19/2014 SBFCA project had levee access blocked. Could not get to pipe.12/29/2014 Access bocked due to SBFCA project. FIELD_STRUCT_DESC: *ABANDONED* 36 inch CMP drainpipe through the levee 22-feet below the crown. Concrete U-shaped headwall on LS toe. Originally included in O+M manual at 473+30. Pipe was abandoned in place and a concrete plug was installed in WS slope after pipe failed in 1964 under permit No. 4556. FS Date: 6/16/2015 7:00:53 AM



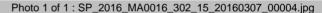
Arial photo showing location of Concrete headwall on LS toe.

-121.636613 ° -121.636613	LM Start	0.18	0.18 Rating ** M				15	
Category Start End Item 39.258437 39.258437 -121.636613 -121.636613	LM End	0.18	Issue Type +	En	Location *		LS	
Item Start End -121.636613 39.258437 39.258437 -121.636613 -121.636613					GPS Latitude/Longitude			
Item -121.636613 ° -121.636613	Calegory	Category			Start		End	
-121.636613 -121.636613 -121.636613	Item	Encroachments			39.2584	37°	39.258437 °	
	item				-121.6366	13 °	-121.636613 °	
DWR ID DWR_MA0016_01_s _ 2012_15								

Comment Code

BU: Building

Inspector Comment





Levee mile 0.18. This photo shows the building on the landside shoulder and toe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainte

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	0.44	Rating **	U	Issue No.		7		
LM End	0.49	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	ments		39.2622	13°	39.262825 °			
пеш				-121.6365	45°	-121.636430 °		
DWR ID DWR_MA0016_01_s _ 2012_7								
Comment Code								
BU : Buildi	ng							
	Inspector Comment							



Levee mile 0.49. This photo shows the building and landscaping on the landside slope and toe.

LM Start	1.09	Rating **	М	Issue No.	18			
LM End	1.42	Issue Type +	Ma	Location *	WS			
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Vegetation			39.2713	69°	39.275852 °		
пеш				-121.63408	80°	-121.632502 °		
DWR ID DWR_MA0016_01_s _ 2016_18								
Comment Code								
	V// O							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	1.49	Rating **	M	Issue No.		17		
LM End	1.81	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory		Start		End				
Item	Vegetatio	n		39.27695	1 °	39.281465	٥	
item				-121.63280	3°	-121.632339	0	
DWR ID	DWR_MA0	016_01_s _ 201	6_17					
		C		l_				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	1.53	Rating **	М	Issue No.		12	
LM End	1.81	Issue Type +	Ma	Location *		LS	
Category	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Vegetation					39.281465 °	
пеш				-121.6329	63 °	-121.632338 °	
DWR ID	DWR ID DWR_MA0016_01_s _ 2016_12						
		Comn	nent Cod	le			
V1 : Contre easements		grass and wee	eds on th	e levee slop	oes a	and	
Inspector Comment							

No Photos

LM Start	1.69	Rating **	М	Issue No.		27	
LM End	1.69	Issue Type + En		Location *		LS	
Category	Suppleme	ental	GPS Latitude/Longitude				
Category				Start		End	
Item	DWR UC	39.2798	12°	39.279812 °			
пеш				-121.6329	87°	-121.632987 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:45938 DS_ID:17129 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 6/8/2015 SBFCA project recommended replacing this pipe but after completion of the project in this area i was unable locate any signs of this crossing. Pipe is partially buried at LS toe and shows heavy corrosion. Unable to locate headwalls on either side of levee. Pipe should be cleared of soil and inspected (suspect heavy corrosion throughout pipe).5/14/2013 SBFCA project recommends replacing in accordance with title 23.5/14/2013 Same as last inspection.11/6/2013 Same as last inspection.5/19/2014 SBFCA project had levee access blocked. Could not get to pipe.12/29/2014 Access bocked due to SBFCA project.

FIELD_STRUCT_DESC: 12-inch CM Storm drain pipe through the levee 14.5 feet below the crown. Slide gate on the waterward end. (O&M entry-As builts available 50-4-2193A).

FS Date: 6/16/2015 7:18:33 AM

Photo 1 of 2 : UCIP_SP_2016_45938_65766.jpg



Pipe at LS inlet showing heavy silt and corrosion of pipe.

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	1.69	Rating **	М	Issue No.	e No. 27 (co			
LM End	1.69	Issue Type + En Location *		Location *		+ En Location *		LS
Category	ental	GPS Latitude/Longitude						
Calegory	Calegory					End		
Item	DWR UC	IP Field Study		39.2798 ⁻	12°	39.279812 °		
пеш				-121.63298	87°	-121.632987 °		
DWR ID								

Comment Code

Inspector Comment

FS_ID:45938 DS_ID:17129 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 6/8/2015 SBFCA project recommended replacing this pipe but after completion of the project in this area i was unable locate any signs of this crossing. Pipe is partially buried at LS toe and shows heavy corrosion. Unable to locate headwalls on either side of levee. Pipe should be cleared of soil and inspected (suspect heavy corrosion throughout pipe).5/14/2013 SBFCA project recommends replacing in accordance with title 23.5/14/2013 Same as last inspection.11/6/2013 Same as last inspection.5/19/2014 SBFCA project had levee access blocked. Could not get to pipe.12/29/2014 Access bocked due to SBFCA project.

FIELD_STRUCT_DESC: 12-inch CM Storm drain pipe through the levee 14.5 feet below the crown. Slide gate on the waterward end. (O&M entry-As builts available 50-4-2193A).

FS Date: 6/16/2015 7:18:33 AM

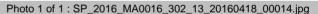


screwgate and headwall found on LS

LM Start	2.69	Rating **	М	Issue No.	13		
LM End	3.08	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory	Category					End	
Item	Vegetation					39.296752°	
item	-121.63					-121.638217°	
DWR ID DWR_MA0016_01_s _ 2016_13							
Comment Code							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment





Vegetation on landside slope looking downstream.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	2.85	Rating **	М	Issue No.		14			
LM End	3.08	Issue Type +	En	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Encroach	ments		39.2936	75°	39.296748°			
пеш				-121.636615 °		-121.638192 °			
DWR ID DWR_MA0016_01_s _ 2012_14									
		Comn	nent Cod	le					
DT : Ditch									
Inspector Comment									

Photo 1 of 1: SP_2016_MA0016_302_14_20160307_00003.jpg

Agricultural ditch land side slope and toe.

LM Start	2.86	Rating **	С	Issue No.		25	
LM End	2.86	Issue Type +	En	Location *	WS		
Category	Earthen L		GPS Latitude/Longitude				
Calegory			Start		End		
Item	Vegetatio		39.293865°		39.293865 °		
item			-121.636690 °		-121.636690 °		
DWR ID	DWR_MA0016_01_f _ 2013_25						
Comment Code							

V6: Landscaping

Inspector Comment

Remove the landscape from the waterside slope.

No Photos

LM Start	2.88	Rating **	М	Issue No.		16	
LM End	3.08	Issue Type +	Ma	Location *	WS		
Category	Earthen L	GPS La	tituc	le/Longitude			
Calegory			Start		End		
Item	Vegetation			39.294076°		39.296752°	
пеш			-121.636775 °		-121.638217 °		
DWR ID	DWR_MA0	016_01_s _ 201	6_16				
		Comn	nent Cod	le			
V1 : Control annual grass and weeds on the levee slopes and easements.							

Inspector Comment



* Location	
LS : Land Side	N/A: Not Applicable
WS: Water Side	
CR : Crown	

Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Tuesday, May 31, 2016 13:31 **FINAL DATA** Page 7 of 10

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	3.27	Rating **	M	Issue No.		11		
LM End	3.27	Issue Type +	En	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Encroach	ments		39.2995	02 °	39.299502°		
item				-121.638326 °		-121.638326 °		
DWR ID DWR_MA0016_01_s _ 2016_11								
		Comn	nent Cod	le				
PR : Pruni	ngs							
		Inspecto	or Comm	nent				

Photo 1 of 1 : SP_2016_MA0016_302_11_20160418_00015.jpg

Large pruning on waterside slope.

LM Start	3.39 Rating **		М	Issue No.		28
LM End	3.39	Issue Type +	sue Type + En Lo			WS
Catagony	Suppleme	ental	GPS Latitude/Longitude			
Category				Start		End
Item	DWR UCIP Field Study			39.3012	18°	39.301218 °
item			-121.6383	32 °	-121.638332 °	
DWR ID						

Comment Code

Inspector Comment

FS_ID:45943 DS_ID:17183 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area. Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovered. 5/14/2013 SBFCA project recommends replacing in accordance with title 23.5/14/2013 Same as last inspection. 11/6/2013 Same as last inspection. 12/29/2014 Same as last inspection. 12/29/2014 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 24-inch CMP drain pipe through the levee 16.6-feet below the crown. Headwalls at both ends and a Flap gate on the WS toe.

FS Date: 6/16/2015 7:45:31 AM

Photo 1 of 2: UCIP_SP_2016_45943_65780.jpg



Pipe should be located on either side of the one visible in this picture.

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	3.39 Rating **		М	Issue No.		28 (cont)
LM End	3.39	Issue Type +	En	Location *		WS
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory				Start		End
Item	IP Field Study		39.3012	18°	39.301218°	
пеш				-121.6383	32 °	-121.638332 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:45943 DS_ID:17183 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area. Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovered.5/14/2013 SBFCA project recommends replacing in accordance with title 23.5/14/2013 Same as last inspection.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.

FIELD_STRUCT_DESC: 2 of 2: 24-inch CMP drain pipe through the levee 16.6-feet below the crown. Headwalls at both ends and a Flap gate on the WS toe.

FS Date: 6/16/2015 7:45:31 AM

Photo 2 of 2: UCIP_SP_2016_45943_65779.jpg

Headwall and flap gate on WS toe.

LM Start	3.39	Rating **	М	Issue No.		10					
LM End	3.66	Issue Type +	Ma	Location *		LS					
Category	Earthen L	GPS La	atitud	e/Longitude							
Calegory				Start		End					
Item	Vegetation			39.3013	22 °	39.305194	0				
item				-121.6383	36°	-121.637706	0				
DWR ID	DWR_MA0	016_01_s _ 201	6_10								
Commont Codo											

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	04/05/2016 04/08/2016	Sterling York

LM Start	3.90	Rating **	M	Issue No.	9			
LM End	4.04	Issue Type +	Ма	Location *	LS			
Category	Earthen Levee			GPS Latitude/Longitude				
			Start		End			
Item	Vegetation			39.308616°		39.310591°		
пеш			-121.6376	71 °	-121.637695 °			
DWR ID DWR_MA0016_01_s _ 2016_9								
Comment Code								
V1 : Control annual grass and weeds on the levee slopes and								
easements.								
Inspector Comment								